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Received Date:
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cc

bcc

Subject Fw: 5th Bi-weekly EPAAct Test Program Report

FYI

----- Forwarded by Carl Scarbro/AA/USEPA/US on 04/14/2008 12:09 PM -----



Connie Hart/AA/USEPA/US
EPA-OAR,OTAQ,ASD
Sent by: Connie Hart

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04/09/2008 01:53 PM
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cc William Charmley/AA/USEPA/US@EPA, Ines
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Scarbro/AA/USEPA/US@EPA, Marion
Hoyer/AA/USEPA/US@EPA, Michael
Christianson/AA/USEPA/US@EPA, Rafal
Sobotowski/AA/USEPA/US@EPA, Joseph
Somers/AA/USEPA/US@EPA, CarlR
Fulper/AA/USEPA/US@EPA, David
Brzezinski/AA/USEPA/US@EPA, Cheryl
Caffrey/AA/USEPA/US@EPA

Subject 5th Bi-weekly EPAAct Test Program Report

Chet,

For the past two weeks, the highlights are:

Light Duty Gas Exhaust Fuels - Rafal Sobotowski went to SwRI this week for the testing kickoff. Two people from LOD went with him to check the testing equipment (Tom Schrodt and John Mentor).

Lube Study at NVFEL - Initial results indicate that PM decreases as oil ages, both in magnitude and variability.

PM Speciation - Briefing is scheduled for you April 10.

Nonroad Exhaust Program - Cheryl Caffrey has taken over as technical lead and alternate WAM.

Evap testing at SwRI, E-77-2b - Will be briefing our staff on CRC E-77-2 data to date before sending SOW to SwRI, giving us an opportunity to make adjustments.

Determine Percent of High Evap Vehicles in Fleet - ICR supporting documents will be ready to go to OEI next week. Will need management support to push through OMB.



EPAAct Testing bi-weekly 4_9_08.doc

Connie

EPAct Test Programs in ASD
5th Bi-Weekly Report
April 9, 2008

1. Light Duty Gas Exhaust Fuels

Contractor: SwRI, EP-C-07-028, WA 0-1
WAM: Connie Hart
Alt. WAM: Rafal Sobotowski
Other team members: Carl Scarbro, Mike Christianson, Tony Fernandez, Carl Fulper, Aron Butler
Budget: \$4M, plus \$2M in collaboration with NREL

Time Line

- Testing is scheduled to begin first week in April
- Phase 1 and half of Phase 2 finished by the end of June
- Phase 3 will be finished May 2009

Program Status:

- All three fuels approved for Phase 1:
 - Fuel 17 has been delivered.
 - Fuel 18 has been approved.
 - Fuel 19 has an issue, working towards resolution.
- We are investigating with Halterman the possibility of increasing the number of high aromatic content blendstocks for Phase 3 fuels.
- Vehicles are all in and initial FTPs complete, mileage accumulation complete
- Prototype testing for past week and a half to verify all equipment and procedures. Expect first repeatable tests by end of week.
- Quality Assurance Project Plan (QAPP) delivered last week. Only minor modifications necessary.
- Rafal left for kick-off meeting scheduled April 9-11 with Doug Lawson of NREL, at SwRI.
 - Two people from LOD also going to SwRI to check testing equipment, Tom Schrodt, John Mentor.

2. Oil Study

Contractor: NVFEL
Project lead: Mike Christianson, Rafal Sobotowski
Budget:

Time Line

- Estimated duration of pilot: 15 weeks (May 11)

Program Status:

should be done 2nd wk of May

- Entering the last two weeks of testing for Phase I of the program.
- Initial results indicate that PM decreases as oil ages, both in magnitude and variability.

3. PM Speciation

Contractor: NVFEL
 Project lead: Mike Christianson, Marion Hoyer
 Other team members: Carl Scarbro, Rafal Sobotowski, Joe McDonald
 Budget: \$265K

Time Line: Late 2008

Program Status:

- Briefing scheduled for Chet April 10.
- Paperwork for sole source purchase of Toxics Sampler is in Cincinnati. Expect delivery in early September.

4. Nonroad Exhaust Program

Contractor: Carnot Intertek
 WAM: Carl Scarbro
 Alt. WAM: Cheryl Caffrey
 Budget: \$600K

Project Overview:

Timeline

- The original program was to be completed last year
- Should begin by April 1st and finish in August of this year

Program Status

- Cheryl Caffrey has taken over as technical lead and alternate WAM from Rafal Sobotowski.
- The correlation engine has revealed a significant difference between Carnot and Environment Canada. The engine is running leaner at Carnot and putting out less power at full load. We suspect the air induction system after shipment at either Carnot or EC or possible fuel feed at Carnot. Brian Olson looking into it.
- Carnot has yet to receive the test fuels and the last set of engines for the test program.
- Carnot is using 1065 calculations and methods. The 1065 equation improvements identified in work by Matt Spears, Chris Laroo Cheryl Caffrey and Angella Cullen in January 2008 have been sent to Carnot for their incorporation. Carnot is also investigating other possible spreadsheet calculation issues.

5. Evap Testing

Contractor: SwRI, EP-C-07-028, WA 0-4
WAM: Connie Hart
Alt. WAM: Dave Brzezinski
Other team members: Carl Scarbro, Tony Fernandez
Budget: \$600K

Time Line: Testing from June 2008 thru June 2009

Program Status:

- It was decided to brief our staff on CRC E-77-2 data to date before sending SOW for E-77-2b to SwRI. Meeting will be scheduled in April.
 - Opportunity to make adjustments.

6. Determine Percent of High Evaporative Vehicles in Fleet

Contractor: ERG, EP-C-06-080, WA 1-2
WAM: Connie Hart
Alt. WAM: Dave Brzezinski
Other team members: Carl Scarbro, Carl Fulper, Tony Fernandez, Jim Warila
Budget: \$1M

Time Line

- ICR clock started with Federal Register notice 2/14/08
- SOW package went to Cincinnati 2/22/08
- Approval of Work Plan by March 24
- Contractor to supply supporting documents for ICR submission March 31.
- Another 30 day comment period for ICR, roughly month of May.
- Goal is to have ICR in place by mid-June for recruitment and pilot field work to begin. Will need our management support for OMB to give us priority.
- Finalize test procedure for larger program by August 22 so recruitment can begin for field work in Sept and October
- Compile data and draft report by early December of 2008

Program Status:

- Approved first task of Work Plan, which covers Work Plan development and ICR supporting documents. Contract Officer will not approve the rest until we have a CRADA in place to work with CDPHE.
- ERG should have ICR supporting documents to us by next week. Will need our management support for OMB to give us priority.
- Chris Grundler signed the CRADA Letter of Intent, and this was sent to the Federal Technology Transfer Act Program Office. We will need a CRADA to be pushed through rather quickly.